International Application No PCT/US2004/030986

A. CLASSIFICATION OF SUBJECT MATTER							
IPC 7	A61K38/17 C07K14/47						
ĺ							
Annadan	o International Potent Classification (IDC) and a base and a second						
	o International Patent Classification (IPC) or to both national classific SEARCHED	cation and IPC					
	SEARCHED ocumentation searched (classification system followed by classification)	ion cumbalet					
IPC 7	A61K C07K	on synthols;					
Documenta	Documentation countries and other than 11 and 12 an						
LOCALITICAL.	Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched						
Electronic data base consulted during the international search (name of data base and, where practical, search terms used)							
EPO-Internal, BIOSIS, MEDLINE, Sequence Search, WPI Data, PAJ							
	ENTS CONSIDERED TO BE RELEVANT		··				
Category *	Citation of document, with indication, where appropriate, of the re	levant passages	Relevant to claim No.				
χ	AL-ZOUBI ADEEB M ET AL: "Contra	sting	1-20				
	effects of IG20 and its splice is	soforms,					
	MADD and DENN-SV, on tumor necrosis factor						
	alpha-induced apoptosis and activ	vation of					
	caspase-8 and -3" JOURNAL OF BIOLOGICAL CHEMISTRY,						
	vol. 276, no. 50,						
	14 December 2001 (2001-12-14), pa	2006					
	47202-47211, XP002317870	iges					
	ISSN: 0021-9258						
	Discussion						
	abstract						
	-	-/					
	•						
<u> </u>	X Further documents are listed in the continuation of box C. Patent family members are listed in annex.						
* Special car	egories of cited documents :	"T" later document published after the inter	rnational filing date				
	nt defining the general state of the art which is not	or priority date and not in conflict with cited to understand the principle or the	the application but				
"E" earlier d	"F" earlier deciment but published on or after the international						
filing da "L" docume	ate nt which may throw doubts on priority claim(s) or	"X" document of particular relevance; the clean of the cannot be considered novel or cannot be considered novel or cannot be also as broather the decay of the considered novel or cannot be con	be considered to				
which i	which is cited to establish the publication date of another						
	or other special reason (as specified) nt referring to an oral disclosure, use, exhibition or	cannot be considered to involve an inv document is combined with one or mo	rentive step when the				
other n		ments, such combination being obviou in the art.					
later th	an the priority date claimed	*&* document member of the same patent f	amily				
Date of the a	ctual completion of the international search	Date of mailing of the international sear	ch report				
16	February 2005	07/03/2005					
Name and m	naiting address of the ISA	Authorized officer					
European Patient Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk							
	Tel. (+31-70) 340-2040, Tx. 31 651 epo nl.	Griesinger, I					
Fax: (+31-70) 340-3016 Griesinger, I			į				

International Application No PCT/US2004/030986

	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	Industrial Control
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EFIMOVA ELENA V ET AL: "Differential effects of IG20 and its splice isoform, DENN-SV, on cell proliferation and apoptosis" FASEB JOURNAL, vol. 16, no. 5, 22 March 2002 (2002-03-22), page A1083, XP009044048 & ANNUAL MEETING OF PROFESSIONAL RESEARCH SCIENTISTS ON EXPERIMENTAL BIOLOGY; NEW ORLEANS, LOUISIANA, USA; APRIL 20-24, 2002 ISSN: 0892-6638 abstract	1-20
	SCHIEVELLA ANDREA R ET AL: "MADD, a novel death domain protein that interacts with the type 1 tumor necrosis factor receptor and activates mitogen-activated protein kinase" JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 272, no. 18, 1997, pages 12069-12075, XP002317872 ISSN: 0021-9258 abstract page 12069, right-hand column, paragraph 2	1-20
X :	ZHANG Y ET AL: "A splicing variant of a death domain protein that is regulated by a mitogen-activated kinase is a substrate for c-Jun N-terminal kinase in the human central nervous system" PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA, NATIONAL ACADEMY OF SCIENCE. WASHINGTON, US, vol. 95, no. 5, 3 March 1998 (1998-03-03), pages 2586-2591, XP002214181 ISSN: 0027-8424 abstract page 2586, right-hand column, paragraph 3	1-20
A	HILGER R A ET AL: "THE RAS-RAF-MEK-ERK PATHWAY IN THE TREATMENT OF CANCER" ONKOLOGIE, KARGER, FREIBURG, DE, vol. 25, no. 6, December 2002 (2002-12), pages 511-518, XP009008407 ISSN: 0378-584X abstract -/	1-20

International Application No PCT/US2004/030986

EFIMOVA ELENA V ET AL: "IG20, in contrast to DENN-SV, (MADD splice variants) suppresses tumor cell survival, and enhances their susceptibility to apoptosis and cancer drugs." ONCOGENE, vol. 23, no. 5, 5 February 2004 (2004-02-05), pages 1076-1087, XP002317873 ISSN: 0950-9232 abstract	ategory *	ation) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	l
to DENN-SV, (MADD splice variants) suppresses tumor cell survival, and enhances their susceptibility to apoptosis and cancer drugs." ONCOGENE, vol. 23, no. 5, 5 February 2004 (2004-02-05), pages 1076-1087, XP002317873 ISSN: 0950-9232	leguly -	owation or observant, with antication, where appropriate, of the relevant passages	Relevant to claim No.
	X	to DENN-SV, (MADD splice variants) suppresses tumor cell survival, and enhances their susceptibility to apoptosis and cancer drugs." ONCOGENE, vol. 23, no. 5, 5 February 2004 (2004-02-05), pages 1076-1087, XP002317873 ISSN: 0950-9232	1-20
I I	; ;		
		•	

International application No. PCT/US2004/030986

Box II Observations where certain claims were found unsearchable (Continuation of Item 2 of first sheet)				
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:				
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:				
Although claims 1-18 could be interpreted to be directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.				
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:				
3. Liaims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).				
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)				
This International Searching Authority found multiple inventions in this international application, as follows:				
see additional sheet				
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.				
2. X As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.				
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those ctalms for which fees were paid, specifically claims Nos.:				
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the Invention first mentioned in the claims; it is covered by claims Nos.:				
Remark on Protest The additional search fees were accompanied by the applicant's protest.				
No protest accompanied the payment of additional search fees.				

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-7,14-20 (all claims partially)

IG20 and the use of IG20 or of antibodies, anti-sense or SiRNA molecules thereof to regulate cell death or cell replication.

1.1. claims: 1-20 (all claims partially)

DENN-SV and the use of DENN-SV or of antibodies, anti-sense or SiRNA molecules thereof to regulate cell death or cell replication.

1.2. claims: 1-20 (all claims partially)

Splice variant of IG20 different to DENN-SV and the use of said splice variant or of antibodies, anti-sense or SiRNA molecules thereof to regulate cell death or cell replication (if more than one further splice variant is claimed, each of said further splice variants is considered to be a further subinvention.